Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) Method for inhibiting magnesium hydroxide scale formation on structural parts in contact with an aqueous salt containing medium in a desalination system comprising:

adding to said aqueous salt containing medium in the system a treatment without mineral acid, said treatment comprising

(a) a phosphono functional polymer I including a repeat unit of the structure

wherein R₁ is H or lower alkyl of from about 1 to 6 carbon atoms and wherein X is OH, or OM wherein M is a cation; and wherein Mw for the phosphonate phosphono functional polymer (I) ranges from about 500 to 50,000;

- b) a carboxylate containing polymer II; and
- c) a dispersant;

wherein said aqueous salt containing medium comprises magnesium cations and hydroxide anions under conditions in which, in absence of treatment, Mg(OH)₂ scale would form on said structural parts;

whereby the method inhibits formation of Mg(OH)₂ scale on the structural parts of the desalination system without the use of mineral acid doping.

2. (Canceled)

- 3. (Previously presented) Method as recited in claim 1 wherein said phosphono functional polymer I comprises a second repeat unit formed from polymerization of a nonphosphonate monomer (F).
- 4. (Original) Method as recited in claim 3 wherein said non phosphonate monomer (F) is a member selected from the group consisting of (i) carboxylate monomers, (ii) sulfonate monomers, (iii) amides, and (iv) allylethers and sulfonate and phosphate allyl ethers.
- 5. (Previously presented) Method as recited in claim 4 wherein said non phosphonate monomer (F) is a carboxylate monomer, said phosphono functional polymer I and carboxylate polymer II being added to said aqueous medium in a combined amount I and II of about 1-500 ppm.
- 6. (Previously presented) Method as recited in claim 1 wherein said carboxylate polymer II is a polymaleic acid or anhydride thereof.

7. (Canceled)

- 8. (Previously presented) Method as recited in claim 1 wherein said phosphonate phosphono functional polymer I is poly(isopropenylphosphonic acid).
- 9. (Previously presented) Method as recited in claim 1 wherein said phosphono functional polymer I is poly(vinylphosphonic acid).

10. (Previously presented) Method as recited in claim 1 wherein said phosphono functional polymer (I) comprises a copolymer having a repeat unit (F) of the structure

$$R_{2}$$

$$-[-CH_{2} - C-]$$

$$C = 0$$

$$OR_{3}$$

wherein R₂ is H or CH₃, and R₃ is H or a cation.

- 11. (Canceled)
- 12. (Canceled)
- 13. (Canceled)
- 14. (Currently amended) Method of inhibiting magnesium hydroxide scale formation in a desalination system in which an aqueous salt containing medium is brought into contact with system equipment, comprising adding to said aqueous medium a treatment without mineral acid, comprising
 - a) polymer of isopropenylphosphonic acid;
 - b) a carboxylate containing polymer of acrylic acid and its salts, maleic acid

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and its salts and anhydride, and copolymers or mixtures thereof,

- c) a dispersant; and optionally a
- e) phosphonate;

wherein said aqueous salt containing medium comprises magnesium cations and hydroxide anions under conditions in which, in absence of treatment, Mg(OH)₂ scale would form on said system equipment; and

whereby the method inhibits formation of Mg(OH)₂ scale on the system equipment of the desalination system without the use of mineral acid doping.

15. (Original) Method as recited in claim 14 wherein said carboxylate containing polymer is a polymaleic polymer or anhydride.

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